

CLAIMS

1. A communication apparatus comprising:
a confidence calculator that, when a signal that represents a result of a reception of data at a communicating apparatus is received, finds a confidence of this signal;
a decider that, based upon a calculation result in the confidence calculator, makes a decision as to whether the signal received is a positive acknowledgment signal that represents a success of the reception at the communicating apparatus or a negative acknowledgment signal that represents a failure of the reception; and
a retransmission controller that, based upon a decision result in the decider, performs a retransmission control of the data.
2. The communication apparatus according to claim 1, wherein, when the received signal is the positive acknowledgment signal, the decider makes the decision based on the calculation result.
3. The communication apparatus according to claim 1, wherein the confidence calculator uses a reception quality on a downlink channel from the communicating apparatus for the confidence.
4. The communication apparatus of claim 3, wherein the

reception quality is found based on a received symbol corresponding to the positive acknowledgment signal or the negative acknowledgment signal transmitted from the communicating apparatus.

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5. The communication apparatus according to claim 4, wherein the reception quality is found based on positive acknowledgment signals or negative acknowledgment signals transmitted from the communicating apparatus in
10 a plurality of times of transmissions.

6. The communication apparatus according to claim 3, wherein the reception quality is found based on a received symbol corresponding to a pilot signal multiplexed upon
15 the positive acknowledgment signal or the negative acknowledgment signal transmitted from the communicating apparatus.

7. The communication apparatus according to claim 6,
20 wherein the reception quality is found based on pilot signals transmitted from the communicating apparatus in a plurality of times of transmissions.

8. The communication apparatus according to claim 3,
25 wherein the reception quality is found based on a received symbol corresponding to the positive acknowledgement signal or the negative acknowledgment signal transmitted

from the communicating apparatus and based on a received symbol corresponding to a pilot signal transmitted from the communicating apparatus.

5 9. The communication apparatus according to claim 8, wherein the reception quality is found based on plurality of times of positive acknowledgment signals or negative acknowledgment signals and based on a plurality of times of pilot signals.

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10. The communication apparatus according to claim 3, wherein the confidence calculator makes a minimum measured reception quality level estimated from a measured reception quality the confidence, based on a
15 relationship between a maximum measured reception quality level and a level representing an actual reception quality that is configured in the form of a table,

11. The base station apparatus according to claim 1,
20 further comprising a threshold level determiner that changes a decision threshold level in the decider according to a presence and absence of a retransmission of the data.

25 12. A data retransmission control method comprising:
 a confidence calculation step of finding a confidence of a received signal when this signal

represents a result of a reception of data at a communicating apparatus;

5 a decision step of making a decision as to whether the received signal is a positive acknowledgment signal that represents a success of the reception at the communicating apparatus or a negative acknowledgment signal that represents a failure of the reception based upon a calculation result in the confidence calculation step; and

10 a retransmission control step of performing a retransmission control on the data based upon a decision result in the decision step.